

T. Worral

TEAM 1

Page # 312

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/040,485

DATE: 11/04/98
TIME: 19:03:33

INPUT SET: S29634.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Radosevich, James A.
6
7 (ii) TITLE OF INVENTION: A GENE ENCODING A NOVEL MARKER FOR
8 CANCER
9
10 (iii) NUMBER OF SEQUENCES: 9
11
12 (iv) CORRESPONDENCE ADDRESS:
13 (A) ADDRESSEE: BRINKS, HOFER, GILSON & LIONE
14 (B) STREET: NBC Tower - Suite 3600, 455 N. Cityfront
15 Plaza Drive
16 (C) CITY: Chicago
17 (D) STATE: Illinois
18 (E) COUNTRY: USA
19 (F) ZIP: 60611-5599
20
21 (v) COMPUTER READABLE FORM:
22 (A) MEDIUM TYPE: Floppy disk
23 (B) COMPUTER: IBM PC compatible
24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
26
27 (vi) CURRENT APPLICATION DATA:
28 (A) APPLICATION NUMBER: US 09/040,485
29 (B) FILING DATE: 17-MAR-1998
30 (C) CLASSIFICATION:
31
32 (viii) ATTORNEY/AGENT INFORMATION:
33 (A) NAME: Martin, Alice O.
34 (B) REGISTRATION NUMBER: 35,601
35 (C) REFERENCE/DOCKET NUMBER: 8998/3
36
37 (ix) TELECOMMUNICATION INFORMATION:
38 (A) TELEPHONE: 312-321-4200
39 (B) TELEFAX: 312-321-4299
40
41
42 (2) INFORMATION FOR SEQ ID NO:1:
43
44 (i) SEQUENCE CHARACTERISTICS:
45 (A) LENGTH: 2442 base pairs
46 (B) TYPE: nucleic acid

RAW SEQUENCE LISTING PATENT APPLICATION US/09/040,485

 DATE: 11/04/98
 TIME: 19:03:35

INPUT SET: S29634.raw

```

47      (C) STRANDEDNESS: single
48      (D) TOPOLOGY: linear
49
50      (ii) MOLECULE TYPE: cDNA
51
52
53      (ix) FEATURE:
54          (A) NAME/KEY: CDS
55          (B) LOCATION: 70..834
56
57
58      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
59
60      CGGGAGCTTG AAGGACACAA GAATGGGAGG AAAGGCGGAC TCTCAGGAAC TTCATTCTTC      60
61
62      ACGTGGTTT ATG GTG ATT GCA TTG CTG GGC GTC TGG ACA TCT GTA GCT      108
63      Met Val Ile Ala Leu Leu Gly Val Trp Thr Ser Val Ala
64      1 5 10
65
66      GTC GTT TGG TTT GAT CTT GTT GAC TAT GAG GAA GTT CTA GGA AAA CTA      156
67      Val Val Trp Phe Asp Leu Val Asp Tyr Glu Glu Val Leu Gly Lys Leu
68      15 20 25
69
70      GGA ATC TAT GAT GCT GAT GGT GAT GGA GAT TTT GAT GTG GAT GAT GCC      204
71      Gly Ile Tyr Asp Ala Asp Gly Asp Gly Asp Phe Asp Val Asp Asp Ala
72      30 35 40 45
73
74      AAA GTT TTA TTA GGA CTT AAA GAG AGA TCT ACT TCA GAG CCA GCA GTC      252
75      Lys Val Leu Leu Gly Leu Lys Glu Arg Ser Thr Ser Glu Pro Ala Val
76      50 55 60
77
78      CCG CCA GAA GAG GCT GAG CCA CAC ACT GAG CCC GAG GAG CAG GTT CCT      300
79      Pro Pro Glu Glu Ala Glu Pro His Thr Glu Pro Glu Glu Gln Val Pro
80      65 70 75
81
82      GTG GAG GCA GAA CCC CAG AAT ATC GAA GAT GAA GCA AAA GAA CAA ATT      348
83      Val Glu Ala Glu Pro Gln Asn Ile Glu Asp Glu Ala Lys Glu Gln Ile
84      80 85 90
85
86      CAG TCC CTT CTC CAT GAA ATG GTA CAC GCA GAA CAT GTT GAG GGA GAA      396
87      Gln Ser Leu Leu His Glu Met Val His Ala Glu His Val Glu Gly Glu
88      95 100 105
89
90      GAC TTG CAA CAA GAA GAT GGA CCC ACA GGA GAA CCA CAA CAA GAG GAT      444
91      Asp Leu Gln Gln Glu Asp Gly Pro Thr Gly Glu Pro Gln Gln Glu Asp
92      110 115 120 125
93
94      GAT GAG TTT CTT ATG GCG ACT GAT GTA GAT GAT AGA TTT GAG ACC CTG      492
95      Asp Glu Phe Leu Met Ala Thr Asp Val Asp Asp Arg Phe Glu Thr Leu
96      130 135 140
97
98      GAA CCT GAA GTA TCT CAT GAA GAA ACC GAG CAT AGT TAC CAC GTG GAA      540
99      Glu Pro Glu Val Ser His Glu Glu Thr Glu His Ser Tyr His Val Glu
  
```

RAW SEQUENCE LISTING PATENT APPLICATION US/09/040,485

DATE: 11/04/98
TIME: 19:03:36

INPUT SET: S29634.raw

	145	150	155	
100				
101				
102	GAG ACA GTT TCA CAA GAC TGT AAT CAG GAT ATG GAA GAG ATG ATG TCT			588
103	Glu Thr Val Ser Gln Asp Cys Asn Gln Asp Met Glu Glu Met Met Ser			
104	160	165	170	
105				
106	GAG CAG GAA AAT CCA GAT TCC AGT GAA CCA GTA GTA GAA GAT GAA AGA			636
107	Glu Gln Glu Asn Pro Asp Ser Ser Glu Pro Val Val Glu Asp Glu Arg			
108	175	180	185	
109				
110	TTG CAC CAT GAT ACA GAT GAT GTA ACA TAC CAA GTC TAT GAG GAA CAA			684
111	Leu His His Asp Thr Asp Asp Val Thr Tyr Gln Val Tyr Glu Glu Gln			
112	190	195	200	205
113				
114	GCA GTA TAT GAA CCT CTA GAA AAT GAA GGG ATA GAA ATC ACA GAA GTA			732
115	Ala Val Tyr Glu Pro Leu Glu Asn Glu Gly Ile Glu Ile Thr Glu Val			
116	210	215	220	
117				
118	ACT GCT CCC CCT GAG GAT AAT CCT GTA GAA GAT TCA CAG GTA ATT GTA			780
119	Thr Ala Pro Pro Glu Asp Asn Pro Val Glu Asp Ser Gln Val Ile Val			
120	225	230	235	
121				
122	GAA GAA GTA AGC ATT TTT CCT GTG GAA GAA CAG CAG GAA GTA CCA CCA			828
123	Glu Glu Val Ser Ile Phe Pro Val Glu Glu Gln Gln Glu Val Pro Pro			
124	240	245	250	
125				
126	GAT ACT TAAAGCTTCA AAAAGACTGC CCCTACCACC ACAGGAGGAC CAGCCTAACC			884
127	Asp Thr			
128	255			
129				
130	ATACGCTCCA AAAGATGGCT GTGATAGATC TTGTGAAGCA ATTACTGAGC AGATCAAGAT			944
131				
132	CTTTGGGAAG GAACACTAAA GATGTTTTGA ATGAATTATA GTCCACTGGC ATTTTAGTGT			1004
133				
134	ATTTTTTTTT CTTTTTAGAA ACACACATTT CTAAAAATGT CATGTTACAT TCCTGCATGT			1064
135				
136	CCCTTTTGAT AGCATTAGTG GATCCATTGG ATTTCTTTTT TCTTTTTGTG AGACAGCTTT			1124
137				
138	TAGTCTTACC TGAATTTATG TGTGTTTTTC CGACAGTGGT TAATAATTAT ATTGGTGATG			1184
139				
140	TAGCAGCAAT TGTGTTGGCA GGGTTTTCAT ATATTATTAG TAATTAACAC TAACTGTTGG			1244
141				
142	ACTGACTTGT GTACACTGTG TTAAACATGA TTTAAAAGCT ATTAAGAGTA CTTTGTGTTA			1304
143				
144	GCACTCTTAA AAACGCTAAC AGAGATCATC ATTAGCTGTG AAGATTTGAG TTGTATATAC			1364
145				
146	CTGCACTGAT ATTCTTATCA AAAATTTCTA CATTAGCTTT AAGTGTTTCTAG ATTAACACTT			1424
147				
148	TTGAAACCTT TGTAGCTTTT AGCTGATTAA TTAGAAAAAT TAATATTTCA GTGAAAGTTT			1484
149				
150	TAAATTATCA TTTATTTATT TTTTAAATG AGAGGGGAAA GCTGAAATTC CTTGTTAAGA			1544
151				
152	CACAAGGAAA AAGAATGGCC CTACTATTAT CATGCAAAAA TGCTTTGTTG GCACCTCAGA			1604

RAW SEQUENCE LISTING PATENT APPLICATION US/09/040,485

DATE: 11/04/98
TIME: 19:03:38

INPUT SET: S29634.raw

```

153
154 TTAATCATAT AATAGCTATA GTCTCTTCAG CATTTGTTTA AATTTTAGAA AACCTGTATA 1664
155
156 AATTACTGGT GCATAACTTA AAGATTATTC TGCCTTTGGC TAATTGAGTA ATTCCCCTCC 1724
157
158 AGCACTAGAG ACCGCTCAGT GCTCTTACTA GATGAACTCA GTAACGCCTT GAGCTGGGTT 1784
159
160 GATTGAGGAT GTGTGAAAAA GCTCACAGAG CCCGATGCCT GCTGCTATTT CACGGCAATG 1844
161
162 AGCCTTTTTTC TTTCTACACT GAAGATTTTC TTCTTATTTA ATGTGGTTTA TTTTGGGCTC 1904
163
164 AGAAATAATT GCTCTGTTGA AAATAATCCT TTGTCAGAAA AGAAGGTAGC TACCACATCA 1964
165
166 TTTTGAAAGG ACCATGAGCA ACTATAAGCA AAGCCATAAG AAGTGGTTTG ATCGATATAT 2024
167
168 TAGGGGTAGC TCTTGATTTT GTTAACATTA AGATAAGGTG ACTTTTTCCC CCTGCTTTTA 2084
169
170 GGATTAAAAT CAAAGATACT TCTATATTTT TATCACTATA GATCATAGTT ATTATACAAT 2144
171
172 GTAGTGAGTC CTGCATGGGT ACTCGATGTG TAATGAAACC TGAAATAATA ATAAGATAAT 2204
173
174 AAGAAAAGCA ATAATTTTCT AAAGCTGTGC TGTCGGTGAT ACAGAGATGA TACTCAAATT 2264
175
176 ATAATAAAAC TCTTCATTTT GTGAATTATA GAAGCTACTT TTTATAAAGC CATATTTTTT 2324
177
178 TAGGGAAACT AAGGAGTGAC ATAGAACTGA TGAATGAGTA AAAGTAAGTT TTGCTGGATT 2384
179
180 TTTGTAGAAC TCTGGACGTT GAGGATTCAT TATGCTGTGG TTAACTTTAA ATATTTTT 2442
181
182

```

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```

193
194 Met Val Ile Ala Leu Leu Gly Val Trp Thr Ser Val Ala Val Val Trp
195 1 5 10 15
196
197 Phe Asp Leu Val Asp Tyr Glu Glu Val Leu Gly Lys Leu Gly Ile Tyr
198 20 25 30
199
200 Asp Ala Asp Gly Asp Gly Asp Phe Asp Val Asp Asp Ala Lys Val Leu
201 35 40 45
202
203 Leu Gly Leu Lys Glu Arg Ser Thr Ser Glu Pro Ala Val Pro Pro Glu
204 50 55 60
205

```

RAW SEQUENCE LISTING PATENT APPLICATION US/09/040,485

DATE: 11/04/98
TIME: 19:03:40

INPUT SET: S29634.raw

```

206  Glu Ala Glu Pro His Thr Glu Pro Glu Glu Gln Val Pro Val Glu Ala
207    65                      70                      75                      80
208
209  Glu Pro Gln Asn Ile Glu Asp Glu Ala Lys Glu Gln Ile Gln Ser Leu
210                      85                      90                      95
211
212  Leu His Glu Met Val His Ala Glu His Val Glu Gly Glu Asp Leu Gln
213                      100                      105                      110
214
215  Gln Glu Asp Gly Pro Thr Gly Glu Pro Gln Gln Glu Asp Asp Glu Phe
216                      115                      120                      125
217
218  Leu Met Ala Thr Asp Val Asp Asp Arg Phe Glu Thr Leu Glu Pro Glu
219                      130                      135                      140
220
221  Val Ser His Glu Glu Thr Glu His Ser Tyr His Val Glu Glu Thr Val
222  145                      150                      155                      160
223
224  Ser Gln Asp Cys Asn Gln Asp Met Glu Glu Met Met Ser Glu Gln Glu
225                      165                      170                      175
226
227  Asn Pro Asp Ser Ser Glu Pro Val Val Glu Asp Glu Arg Leu His His
228                      180                      185                      190
229
230  Asp Thr Asp Asp Val Thr Tyr Gln Val Tyr Glu Glu Gln Ala Val Tyr
231                      195                      200                      205
232
233  Glu Pro Leu Glu Asn Glu Gly Ile Glu Ile Thr Glu Val Thr Ala Pro
234                      210                      215                      220
235
236  Pro Glu Asp Asn Pro Val Glu Asp Ser Gln Val Ile Val Glu Glu Val
237  225                      230                      235                      240
238
239  Ser Ile Phe Pro Val Glu Glu Gln Gln Glu Val Pro Pro Asp Thr
240                      245                      250                      255
241

```

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

```

257  Val Lys Lys Ala Phe Ala Ile Ile Asp Gln Asp Lys Ser Gly Phe Ile
258    1                      5                      10                      15

```

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/040,485

DATE: 11/04/98
TIME: 19:03:42

INPUT SET: S29634.raw

Line

Error

Original Text